

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Modified Estimate For Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division

SI No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Removing and Resetting of Footpath Slab (Approved Rate)								
	Desilt								
	Surabi Layout	1	283.50	0.75		212.63			
						212.63			
	Deduct/Missing Slab 12%					25.30			
						187.32	Sqm	204.22	38,255.03
	Approved Amount		204.22						
2	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3) (V-I. No 1.4, Page No-5 PWD SR 2021-22) & (V III Page No.3, Item No 1.1 A of PWD SR 2021-22)								
	RCC Drain								
	Surabi Layout								
	Raitara Sante Road	1	111.80	1.40	1.20	187.82			
	Culverts	1	10.60	1.80	1.00	19.08			
	Desilt								
	Surabi Layout	1	283.50	0.45	0.57	72.97			
	Debris	1	20.00	2.00	0.35	14.00			
						293.88	Cum	264.18	77,636.40
	Approved Amount		264.18						
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22) (Issue rate on 07-04-22)								
	RCC Drain								
	Surabi Layout								
	Raitara Sante Road	1	111.80	1.40	0.15	23.48			
	Culverts	1	10.60	1.80	0.15	2.86			
						26.34	Cum		
					Upto 125%	25.60	Cum	4826.43	123556.61
					Above 125%	0.74	Cum	4826.43	3,571.56
	Approved Amount		4826.43						
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. (V-III, I.No 13.1 Page No 99, PWD SR 2021-22) (Issue rate on 07-04-22)								
	For RCC Drain, 60kg/Cum	1	46.96	60.00		2817.36			

SI No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	For CC Culvert, 90kg/Cum	1	6.11	90.00		549.50			
						3366.86			
						3.37	Tn	80095.73	269671.43
	Approved Amount		80095.73						
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1, P.No.17, I.No.2.4.2 of PWD SR 2021-22) Appendix I, V-I P.No-115)(Issue rate on 07-04-22)								
	RCC Drain Raft								
	Surabi Layout								
	Raitara Sante Road	1	111.80	1.20	0.15	20.12			
	RCC Drain Wall								
	Surabi Layout								
	Raitara Sante Road	2	111.80	0.15	0.80	26.83			
						46.96			
	Culvert Raft	1	10.60	1.50	0.20	3.18			
	CulvertWall	2	10.60	0.23	0.60	2.93			
						6.11			
	Wall Rising	1	144.00	0.15	0.20	4.32			
						57.38	Cum	5445.50	312471.50
	Approved Amount		5445.50						
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.4 of PWD SR 2021-22)(Issue rate on 07-04-22)								
	RCC Drain Bed Correction								
	Surabi Layout[Shivanahalli]								
	Main Road	1	144.00	0.45	0.15	9.72			
						9.72	Cum	4977.63	48,382.56
	Approved Amount		4977.63						
7	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M25 with OPC cement, @340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine, mixed, Including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								
	Surabi Layout								
	Raitara Sante Road	1	111.80	1.20		134.16			

SI No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						134.16			
	Qty From Item No-1					28.50			
						162.66	Sqm	1636.88	266254.90
	Approved Amount		1636.88						
8	Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M25 with OPC cement, @340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine, mixed, Including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc. complete as directed by the Engineer in charge of the work (Exclusive of GST)								
	RCC Culvert	1	10.60	1.50		15.90			
						15.90	Sqm	3979.23	63,269.76
	Approved Amount		3979.23						
9	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
	Qty frm Item No-1		293.9	1.28		376.16			
						376.16	t.Km	83.42	31,379.47
	Approved Amount		83.42						
E1	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc., complete (Excluding GST and Area leading charges)								
	Approved rate	507.00							
	Below 21 %	106.47							
	Total Rate	400.53							
	For Kerb Stone								
	Surabi Layout								
	Raitara Sante Road	1	111.80			111.80			
						111.80	M		
						248.00	Nos	400.53	99,331.44
E2	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III, P.No.56, I.No.8.10 of PW, PWD SR 2021-22)								
	Basic Rate	85.00							
	Area Weightage 10%	8.50							
	Sub Total	93.50							
	Below 21 %	19.64							
	Total Rate	73.87							
	RCC Drain Bed Correction								
	Surabi Layout								
	Raitara Sante Road	1	111.80		0.35	39.13			
						39.13	Sqm	73.87	2,898.34
	Total Construction Cost								1336670.99
	18% GST for Construction Cost								240600.78
	GRAND TOTAL								1577271.77

Kavim
Assistant Engineer
Ward No-01
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Ramajaneel
Asst. Executive Engineer
Yelahanka Sub-Division
BBMP Bangalore
Yelahanka, Bangalore

[Signature]
Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka Division
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Yelahanka, Division

Technical Sanction
Accorded For Rs. 1577271.77
Head of A/C: 3276
CER NO: 52 Date: 03/23